

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

Application Number	10/728,210
Filing Date	December 04, 2003
First Named Inventor	DAVID HERBERT ROACH
Group Art Unit	1795
Examiner Name	Schilling
Attorney Docket Number	CL-2248 US NA

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)				
JS	1	US - 5,639,579		06-17-1997	Hayashi	
	2	US - 6,074,893		06-13-2000	Nakata	
	3	US - 6,060,207		05-09-2000	N. SHIDA ET. AL.	
	4	US - 6,410,748 B1		06-25-2002	N. SHIDA ET. AL.	
	5	US - 2002/001720 A1		01-03-2002	R.S. CLOUGH	
	6	US - 4,373,019		02-08-1983	Y. WATANABE ET. AL.	
	7	US - 6,060,841		05-09-2000	NIYAMA	
	8	US - 6,811,950		11-02-2004	KONDO	
	9	US - 5,942,367		08-24-1999	SATOSHI WATANABE ET. AL.	
	10	US - 6,534,671 B2		03-18-2003	CHENGJIU WU ET. AL.	
	11	US - 6,653,043 B1		11-25-2003	MAKOTO HANOBATA	
	12	US - 6,534,235 B1		03-18-2003	MAKOTO HANOBATA ET. AL.	
	13	US - 6,769,945 B2		08-03-2004	YU-YANG CHANG ET. AL.	
	14	US - 2002/0094483		07-18-2002	TAKASHI HATTORI ET. AL.	
	15	US - 2004/0173818		09-09-2004	Cheng	
	16	US - 5,601,638		02-11-1997	Fukuda	
	17	US -				
	18	US - 2004/0140861		07-22-2004	ALVAREZ	
	19	US - 2002/106589 A1		08-08-2002	KEVIN RODNEY ET. AL.	
	20	US - 4,833,067		05-23-1989	TANAKA ET. AL.	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T _e
		CountryCode ³	Number ⁴ Kind Code ⁵ (if known)				
	1						<input type="checkbox"/>
	2						<input type="checkbox"/>
	3						<input type="checkbox"/>
N	4		JP 10340666	12-22-1998	FUTABA DENSHI KOGYO KK		<input type="checkbox"/>
	5		JP 2001/155626	06-08-2001	NORITAKE		<input type="checkbox"/>
	6		JP 2001/111217	04-20-2001	NORITAKE		<input type="checkbox"/>
	7		JP 2000/187327	07-04-2000	FUJI PHOTO		<input type="checkbox"/>
	8		EP 1 184 723 A2	03-06-2002	FUJITSU LIMITED		<input type="checkbox"/>
	9		JP 2000/108259	04-18-2000	NIPPON		<input type="checkbox"/>

Examiner
Signature

R L Schilling

Date
Considered

12-7-07

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	2	of	3
-------	---	----	---

Complete if Known

Application Number	10/728,210
Filing Date	December 04, 2003
First Named Inventor	DAVID HERBERT ROACH
Group Art Unit	1795
Examiner Name	Schilling
Attorney Docket Number	CL-2248 US NA

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)				
B	21	US -	5,756,267	05-26-1998	MATSUDA ET. AL.	
	22	US -	2005/0058953 A1	03-17-2005	YUNG-BAE CAHI ET. AL.	
	23	US -	2004/0018453 A1	01-29-2004	EDGARDO ANZURES ET. AL.	
	24	US -	2002/0058207 A1	05-16-2002	TOSHIYUKI URANO ET. AL.	
	25	US -	4,939,070	07-1990	BRUNSVOLD ET. AL.	
	26	US -	5,164,286	11-1992	BLAKENEY ET. AL.	
	27	US -	6,060,213	05-09-2000	KUNIHICO KODAMA	
	28	US -	6,613,499 B2	09-02-2003	CHING-YU CHANG	
	29	US -	2003/0170559 A1	09-11-2003	KAZUYOSHI MIZUTANI ET. AL.	
	30	US -	2005/0112503 A1	05-26-2005	TAKASHI KANDA ET. AL.	
	31	US -	6,238,842 B1	05-29-2001	KENICHIRO SATO ET. AL.	
	32	US -	6,558,871 B1	05-06-2003	EIJI TAKAHASHI ET. AL.	
	33	US -	5,506,090	04-09-1996	JAMES P. GARDNER ET. AL.	
	34	US -	5,910,392	06-08-1999	KOJI NOZAKI ET. AL.	
	35	US -	6,107,360	08-22-2000	SHOICHI KANEKO ET. AL.	
	36	US -	7,125,648	10-24-2006	NAGASE	
	37	US -	7,186,498	03-06-2007	GRIES	
	38	US -	2006/0154158	07-13-2006	WASHIO	
	39	US -	2005/0130082	06-16-2005	KANDA	
	40	US -	5,362,927	11-08-1994	Ezaki	

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

Date Considered

12-107

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 3 of 3

Complete if Known

Application Number	10/728,210
Filing Date	December 04, 2003
First Named Inventor	DAVID HERBERT ROACH
Group Art Unit	1795
Examiner Name	Schilling
Attorney Docket Number	CL-2248 US NA

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
			<input type="checkbox"/>
9	1	C.E. CARRAHER JR., POLYMER CHEMISTRY, FIFTH EDITION, NEW YORK, MARCEL DEKKER INC. (BOOK NOT INCLUDED)	<input type="checkbox"/>
3	2	WUN-KU WANG ET. AL., ELECTRICAL CHARACTERIZATION OF POLYMER THICK FILM RESISTOR, THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING, 1999, VOL. 3906:619-624	<input type="checkbox"/>
9	3	J.V. CRIVELLO, THE CHEMISTRY OF PHOTOACID GENERATING COMPOUNDS IN POLYMERIC MATERIALS SCIENCE AND ENGINEERING, AMERICAN CHEMICAL SOCIETY MEETING, 1989, VOL. 61:62-68	<input type="checkbox"/>
9	4	CHEN ET. AL., SOLUTION PROPERTIES OF SINGLE-WALLED CARBON NANOTUBES, SCIENCE, 1998, VOL. 282:95-98	<input type="checkbox"/>
9	5	ZHAOXIA ET. AL., NONLINER OPTICAL PROPERTIES OF SOME POLYMER/MULTI-WALLED CARBON NANOTUBE COMPOSITES, CHEMICAL PHYSICS LETTERS, 2000, VOL. 318:505-510	<input type="checkbox"/>
9	6	M. DRESSELHAUS ET. AL., PHYSICS WORLD-PHYSICS WEB, CARBON NANOTUBE, 1998, PAGES 1-10	<input type="checkbox"/>
9	7	S.L. ROSEN, POLYMERS, THE KIRK-OTHMER ENCYCLOPEDIA OF CHEMICAL TECHNOLOGY, FOURTH EDITION, JOHN WILEY & SONS, VOL. 19:881-904	<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>

Examiner Signature	<i>RCSchilling</i>	Date Considered	12-1-07
-----------------------	--------------------	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.